

HAWAII STATE DEPARTMENT OF HEALTH DISEASE OUTBREAK CONTROL DIVISION

Influenza Surveillance Report

March 26 – April 1, 2006: MMWR¹ Week 13

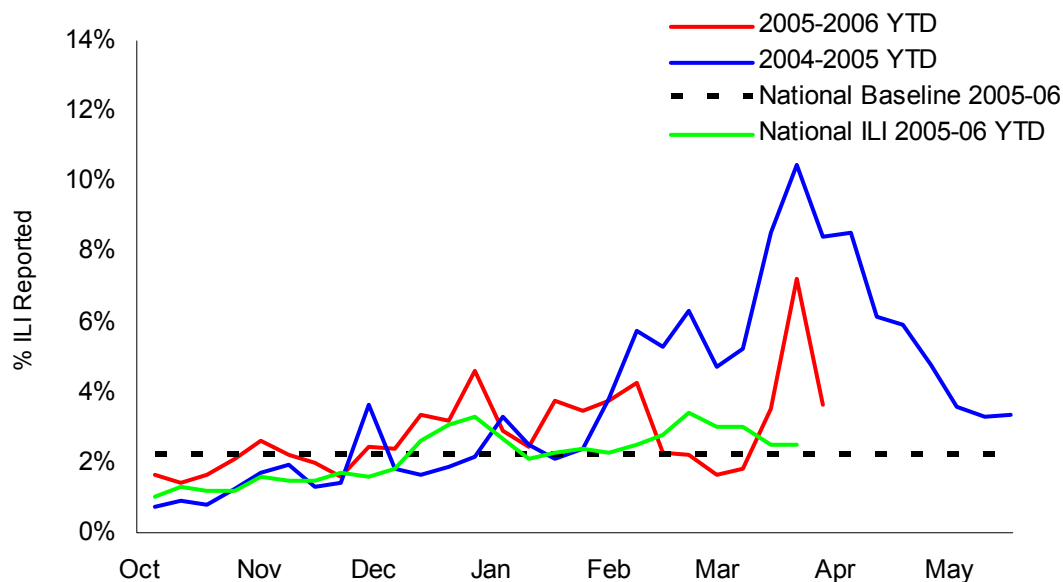
I. Surveillance of Influenza Like Illness (ILI):

During week 13, 3.6% of patient visits to Hawaii's Sentinal Providers were due to Influenza Like Illness (ILI). The current flu season's percentage of ILI is lower than the percent ILI reported at the same time last year (8.4%).

Comparison to National Data²:

During week 12, 2.5% of patient visits to U.S. sentinel providers were due to ILI. This percentage is above the national baseline of 2.2%. Hawaii's ILI of 7.2% for week 12 is higher than the national ILI percentage and the national baseline. National data for week 13 is not yet available.

**Percentage of Visits for Influenza Like Illness (ILI)
Reported by Hawaii Sentinal Providers**



¹ MMWR stands for 'Morbidity and Mortality Weekly Report,' conventionally used by the Centers for Disease Control (CDC). The weeks of a flu season are often referred to by their respective MMWR week.

² National Data presented in this report is obtained from the Centers for Disease Control's Weekly Influenza Summary, and is usually available for the week prior to the current report's MMWR week.

II. Pneumonia and Influenza (P&I) Related Mortality³:

During week 13, no deaths in Honolulu were associated with influenza or pneumonia.

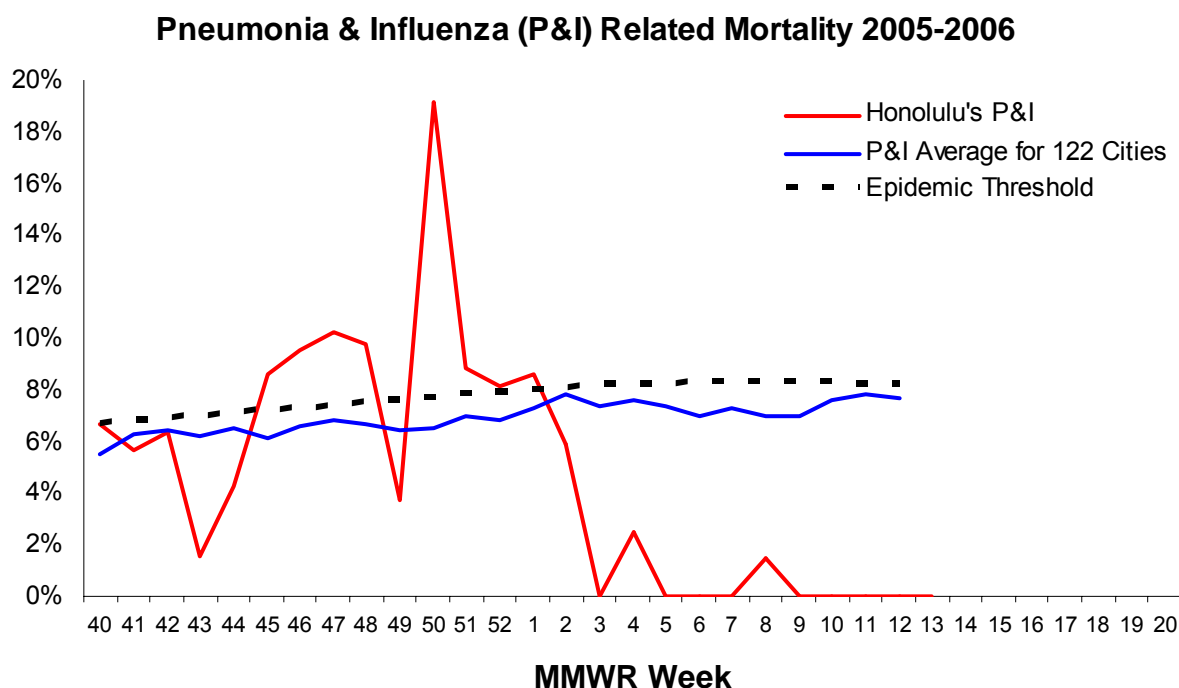
Influenza Associated Pediatric Mortality³:

There have been no influenza-associated pediatric mortalities in Hawaii during the current flu season.

Comparison to National Data⁴:

During week 12, P&I mortality in Hawaii (0.0%) was lower than the average P&I mortality in 122 cities (7.7%) and the epidemic threshold (8.2%). National data for week 13 is not yet available.

One influenza-associated pediatric mortality was reported nationwide during week 12. There have been a total of 16 influenza-associated pediatric deaths during the current flu season.



YEAR	WEEK	ENDING	Honolulu P&I Mortality	Honolulu Total Mortality
2005	40	10/8/2005	4	60
2005	41	10/15/2005	5	88
2005	42	10/22/2005	4	63
2005	43	10/29/2005	1	64
2005	44	11/5/2005	7	165
2005	45	11/12/2005	5	58

³ This data was reported by the Hawaii State Department of Health Vital Statistics Office.

⁴ National Data presented in this report is obtained from the Centers for Disease Control's Weekly Influenza Summary, and is usually available for the week prior to the current report's MMWR week.

YEAR	WEEK	ENDING	Honolulu P&I Mortality	Honolulu Total Mortality
2005	46	11/19/2005	8	84
2005	47	11/26/2005	5	49
2005	48	12/3/2005	9	92
2005	49	12/10/2005	3	81
2005	50	12/17/2005	14	73
2005	51	12/24/2005	7	79
2005	52	12/31/2005	6	74
2006	1	1/7/2006	5	58
2006	2	1/14/2006	2	34
2006	3	1/21/2006	0	25
2006	4	1/28/2006	1	40
2006	5	2/4/2006	0	84
2006	6	2/11/2006	0	66
2006	7	2/18/2006	0	42
2006	8	2/25/2006	1	69
2006	9	3/5/2006	0	59
2006	10	3/11/2006	0	55
2006	11	3/18/2006	0	48
2006	12	3/25/2006	0	30
2006	13	4/1/2006	0	40

III. Laboratory Surveillance

During week 12, the Hawaii State Laboratory Division (SLD) reported testing a total of 146 specimens for respiratory viruses. This is equal to the average number of specimens (146 specimens/week) that SLD has tested during the current flu season. During the same week last year, SLD tested 285 specimens.

Laboratory submissions this flu season were previously reported as lower than last season; however, submissions are actually higher. DOCD and SLD collaborated to develop criteria to prioritize specimens for testing to reduce turn-around-time, optimize data quality, and improve utilization of limited resources. Specimens that are not tested are archived until the next influenza season in case more comprehensive analyses are necessary. A total of **3515** specimens have been tested so far this season.

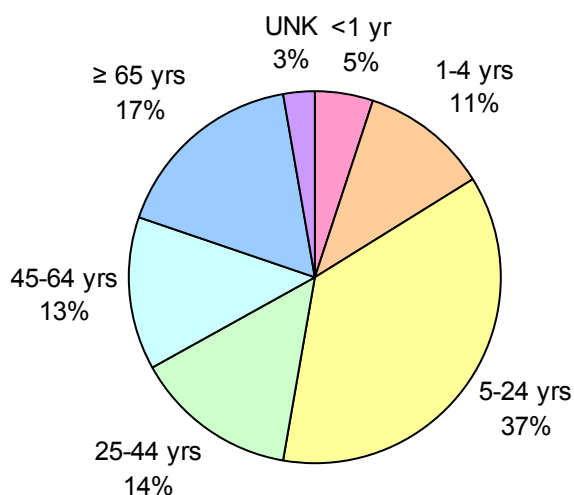
Positive Isolates:

YEAR	WEEK	ENDING	Age Groups (Years)							
			Total	<1	1 - 4	5 - 24	25 - 44	45 - 64	>= 65	UNK
2005	40	10/8/2005	5	0	0	3	2	0	0	0
2005	41	10/15/2005	2	0	2	0	0	0	0	0
2005	42	10/22/2005	6	0	0	4	1	1	0	0
2005	43	10/29/2005	3	0	0	1	2	0	0	0
2005	44	11/5/2005	9	0	1	5	2	0	1	0
2005	45	11/12/2005	10	3	1	5	1	0	0	0
2005	46	11/19/2005	1	1	0	0	0	0	0	0
2005	47	11/26/2005	4	0	0	3	0	0	1	0
2005	48	12/3/2005	9	1	0	8	0	0	0	0
2005	49	12/10/2005	9	0	0	6	1	1	1	0

YEAR	WEEK	ENDING	Age Groups (Years)							
			Total	<1	1 - 4	5 - 24	25 - 44	45 - 64	>= 65	UNK
2005	50	12/17/2005	12	2	2	4	0	1	3	0
2005	51	12/24/2005	28	0	4	11	5	3	5	0
2005	52	12/31/2005	65	4	9	15	8	15	12	2
2005	1	1/7/2006	38	3	5	9	10	5	4	2
2006	2	1/14/2006	51	0	10	19	7	8	7	1
2006	3	1/21/2006	41	4	1	17	6	6	5	2
2006	4	1/28/2006	53	2	8	24	6	3	9	1
2006	5	2/4/2006	53	1	5	19	9	8	9	2
2006	6	2/11/2006	49	0	9	19	5	6	8	2
2006	7	2/18/2006	56	2	2	29	8	8	6	1
2006	8	2/25/2006	63	4	5	18	8	5	21	2
2006	9	3/5/2006	62	5	5	16	8	14	12	2
2006	10	3/11/2006	36	2	4	10	5	5	9	1
2006	11	3/18/2006	0	0	0	0	0	0	0	0
2006	12	3/25/2006	0	0	0	0	0	0	0	0

The pie chart (below) indicates the distribution of positive influenza cases in Hawaii by age group for the current flu season (2005-2006). School children and young adults (age group 5-24) appear to be infected most frequently (37% of cases).

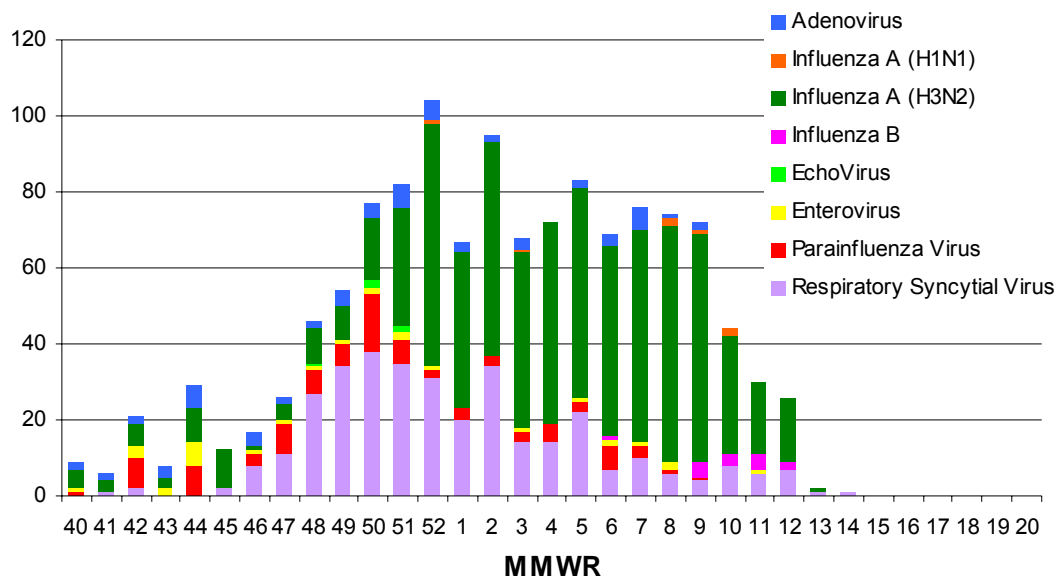
2005-2006 Flu Season: Positive Influenza Cases by Age Group (to date)



Positive isolates sub-typed during Flu Season 2005-2006 (Week 40 to present):

A total of 708 influenza cases have been detected during the current flu season; 695 out of 708 cases have been identified as influenza A. Of these, 688 are of the H3N2 subtype, and 7 are of the H1N1 subtype. There have been 13 influenza B cases identified thus far. These isolates are being sent to CDC for sub-typing confirmation. CDC confirmation will not be expected for several months.

Positive Isolates During Flu Season 2005-2006



IV. Clustered ILI Activity

MMWR Week 8 (Week ending February 25, 2006)

One Maui nursing home outbreak of influenza A was reported in 15 out of 123 residents and 5 out of 28 staff persons who were present at the time of the outbreak. All cases have been sub-typed and the presence of influenza A (H3) virus has been confirmed.

MMWR Week 9 (Week ending March 4, 2006)

One Honolulu nursing home outbreak of influenza was reported in 19 out of 96 residents. All cases have been sub-typed and the presence of influenza A (H3) virus has been confirmed.

MMWR Week 10 (Week ending March 11, 2006)

Another Honolulu nursing home outbreak of influenza was reported in 16 out of 74 residents. The presence of Influenza A has been confirmed through RT-PCR techniques. Several of the cases have been sub-typed and the presence of influenza A (H3) has been confirmed.

MMWR Week 11 (Week ending March 18, 2006)

Two Maui schools also reported an outbreak of influenza. The presence of influenza A was confirmed through RT-PCR testing in one of the schools. Specimens are currently being cultured at the State Laboratory Division to verify the subtype of Influenza A virus.

MMWR Weeks 12, 13 and 14(Weeks ending March 25, April 1, and April 8 2006 respectively)

One Big Island school and one Maui school reported an outbreak of influenza like illness. No specimens were collected for testing during spring break. No cases have been reported since the children returned to school this week.

V. Avian Influenza

4 April 2006

Country	2003		2004		2005		2006		Total	
	cases	deaths	cases	deaths	cases	deaths	cases	deaths	cases	deaths
Azerbaijan	0	0	0	0	0	0	7	5	7	5
Cambodia	0	0	0	0	4	4	1	1	5	5
China	0	0	0	0	8	5	8	6	16	11
Egypt	0	0	0	0	0	0	4	2	4	2
Indonesia	0	0	0	0	17	11	13	12	30	23
Iraq	0	0	0	0	0	0	2	2	2	2
Thailand	0	0	17	12	5	2	0	0	22	14
Turkey	0	0	0	0	0	0	12	4	12	4
Viet Nam	3	3	29	20	61	19	0	0	93	42
Total	3	3	46	32	95	41	47	32	191	108

Total number of cases includes number of deaths.

WHO reports only laboratory-confirmed cases.